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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/746,352	12/21/2000		Jingdong Lin	J. LIN 3 1689		
47396	7590	07/12/2005		EXAMINER		
HITT GAIN AGERE SYS	-	IC.	WANG, TED M			
PO BOX 832			ART UNIT	PAPER NUMBER		
RICHARDS	ON, TX	75083	2634	2634		

DATE MAILED: 07/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)					
Offi	ce Action Summary	09/746,35		LIN, JINGDONG					
5		Examiner		Art Unit					
The M	AILING DATE of this communication	Ted M. Wa		2634	Idrass				
Period for Reply		on appears on the	cover sneet with the c	orrespondence ad	u/ e33				
THE MAILING - Extensions of tin after SIX (6) MO - If the period for r - If NO period for r - Failure to reply v Any reply receive	ED STATUTORY PERIOD FOR A DATE OF THIS COMMUNICAT ne may be available under the provisions of 37 of NTHS from the mailing date of this communicately specified above is less than thirty (30) days reply is specified above, the maximum statutory within the set or extended period for reply will, by ed by the Office later than three months after the rm adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no ever tion. s, a reply within the statu y period will apply and will by statute, cause the appli	nt, however, may a reply be tim lory minimum of thirty (30) days expire SIX (6) MONTHS from cation to become ABANDONEI	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).					
Status									
1)⊠ Respor	sive to communication(s) filed on	n <u>17 December 20</u>	<u>004</u> .						
2a)⊠ This ac	tion is FINAL . 2b)	This action is no	on-final.						
3)☐ Since tl	· · · · · · · · · · · · · · · · · · ·								
closed	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of C	laims								
4a) Of the state	Claim(s) 1,3-8,10-15,17-21 and 23-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 1,3-8,10-15,17-21,23-28 and 39-43 is/are allowed. Claim(s) 29-38 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
Application Pap	ers								
9)∐ The spe	cification is objected to by the Ex	caminer.			·				
10)⊠ The dra	10)⊠ The drawing(s) filed on <u>03/28/2001</u> is/are: a) accepted or b) objected to by the Examiner.								
Applicar	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
· ·	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oat	h or declaration is objected to by	the Examiner. No	te the attached Office	Action or form P	ГО-152.				
Priority under 3	5 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment(s)	conces Cited (PTO 202)		4) 🔲 Intensions Surrey	(PTO 442)					
	ences Cited (PTO-892) sperson's Patent Drawing Review (PTO-9	948)	4) Interview Summary Paper No(s)/Mail Da	ate					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:									

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claim 1, 3-8, 10-15, 17-21, and 23-44 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 29 38 are rejected under 35 U.S.C. 102(e) as being anticipated by Hansen (US2002/0097791).
 - With regard claim 29, Hansen discloses a system for use with a communications channel comprising:

an assorter (Fig.1 elements 12, 14, 26, 32, and 38, and paragraphs 15-22) configured to receive first and second signals having disparate transmission characteristics (Fig.1 element 16) and select one of said first and second signals (Fig.1 elements 12, 14, 26, 32, and 38 and Fig.2 elements 50-54, and paragraphs 35-37); and

a translator (Fig.1 element 40, Fig.2 element 58-66, and paragraphs 38-40), coupled to said assorter, including a map table evoker (Fig.2 element 58-64 and paragraphs 38-40) configured to determine a conversion table to employ with said selected one of said first and second signals and a converter (Fig.1 element 40, Fig.2 element 66, paragraph 27-30, and paragraphs 38-40), coupled to said

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map table evoker, configured to encode said one of said first and second signals into a symbol representation as a function of a transmission characteristic associated therewith (Fig.2 element 58-66, paragraphs 27-30, and paragraphs 38-40).

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- With regard 30, Hansen further discloses wherein said first signal is a voice signal and said second signal is a data signal (Fig.1 elements 14-16 and paragraph 15).
- With regard 31, Hansen further discloses that the system is embodied in at least one of a transmitter and a receiver associated with a telecommunications
 network associated with said communications channel (Fig.1 and paragraph 11).
- With regard 32, Hansen further discloses that the system is at least partially embodied in a sequence of operating instructions operable on a processor (Fig.2 element 48 and paragraph 34).
- With regard 33, Hansen further discloses wherein said communications channel has a frequency dependent channel capacity (paragraph 26) and said first and second signals have different bit error rate transmission characteristics (paragraph 26), said translator configured to encode said selected one of said first and second signals into said symbol representation as a function of said bit error rate transmission characteristics and said channel capacity (paragraphs 22-25).

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With regard claim 34, which is a mean function claim related to claim 29, all limitation is contained in claim 29. The explanation of all the limitation is already addressed in the above paragraph.

- With regard claim 35, which is a mean function claim related to claim 30, all limitation is contained in claim 30. The explanation of all the limitation is already addressed in the above paragraph.
- With regard claim 36, which is a mean function claim related to claim 31, all limitation is contained in claim 31. The explanation of all the limitation is already addressed in the above paragraph.
- With regard claim 37, which is a mean function claim related to claim 32, all limitation is contained in claim 32. The explanation of all the limitation is already addressed in the above paragraph.
- With regard claim 38, which is a mean function claim related to claim 33, all limitation is contained in claim 33. The explanation of all the limitation is already addressed in the above paragraph.

Allowable Subject Matter

3. Claims 1, 3-8, 10-15, 17-21, and 23-28, and 39-43 are allowed.

Conclusion

4. Reference(s) US 6,424,678 and US 6,549,584 are cited because they are put pertinent to the transceiver with constellation mapping. However, none of references teach detailed connection as recited in claim.

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5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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- 6. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ted M. Wang whose telephone number is 571-272-3053. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ted M Wang Examiner Art Unit 2634

Ted M. Wang

SHUWANG LIU PRIMARY EXAMINER

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